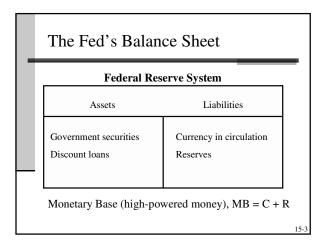
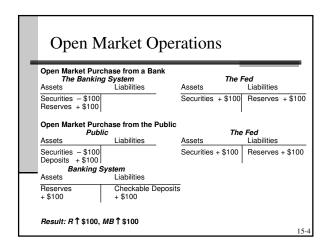


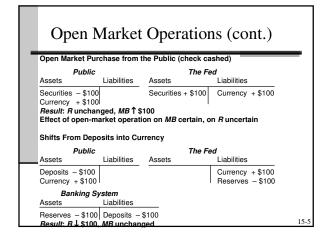
## The Money Supply Process

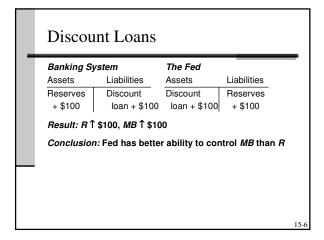
- Players
  - central bank: the Fed
  - banks
  - depositors
  - borrowers from banks
- Functions of the Federal Reserve System
  - conducts monetary policy
  - clears checks
  - regulates banks

15-



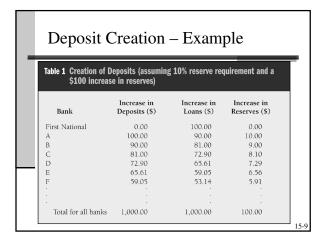


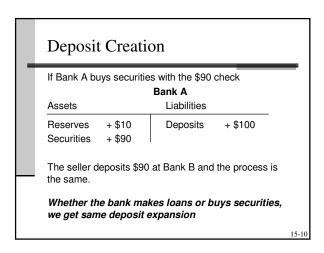




#### Deposit Creation: Single Bank First National Bank Liabilities Assets Securities - \$100 Reserves + \$100 First National Bank Liabilities Assets Securities - \$100 Deposits + \$100 Reserves + \$100 Loans + \$100 First National Bank Assets Liabilities Securities - \$100 Loans + \$100

Depo	sit Crea	tion: Ban	king System
Assets		Bank A Liabilities	
Reserves	+ \$100	Deposits	+ \$100
		Bank A	
Assets		Liabilities	
Reserves	+ \$10	Deposits	+ \$100
Loans	+ \$90	ı	
		Bank B	
Assets		Liabilities	
Reserves	+ \$90	Deposits	+ \$90
		Bank B	
Assets		Liabilities	
Reserves	+ \$ 9	Deposits	+ \$90
Loans	+ \$81	I	





### The Deposit Multiplier

■ required reserves are calculated as a certain fraction *r* (*required reserve ratio*) of checkable deposits:

$$RR = r \times L$$

■ hence, deposits can be calculated as:

$$D = \frac{1}{R} \times R$$

thus, the change in deposits depends on the change in reserves:

$$\Delta D = \frac{1}{r} \times \Delta R$$

Deposit Creation: The Banking System as a Whole

# Banking System Assets Liabilities Securities - \$100 Deposits + \$1000 Reserves + \$1000 + \$1000 + \$1000

#### **Critique of Simple Model**

Deposit creation stops if:

- proceeds from loan kept in cash
- bank holds excess reserves

15-1

15-11